

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF DART AEROSPACE. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF DART AEROSPACE IS PROHIBITED.

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	LAST PROTOTYPE REVISION: PR3		N/C
N/C	INITIAL RELEASE	08/05/09	P. BRAVO
A	INCORPORATED ECN 02963, 03020, 03048	01/25/11	P. BRAVO
B	INCORPORATED ECN 03919	07/05/13	P. BRAVO
C	INCORPORATED ECN 04059	08/13/13	P. BRAVO
D	INCORPORATED ECN'S 04485, 045921 & 04976	06/17/15	P. BRAVO

NOTES: UNLESS OTHERWISE SPECIFIED

- 1 AFTER INSTALLATION, APPLY F/N 73 A/R TO FILL GAPS AND FILLET EDGES
2. APPLY F/N 74 TO FAYING SURFACES
- 3 AT CUSTOMERS OPTION, INSTALL F/N 77 BY MATCH DRILLING ONTO F/N 1
- 4 INSTALL FOR 647.1301, 647.1302.
- 5 INSTALL FOR 647.1304, 647.1305.
- 6 APPLICABLE WHEN EUROCOPTER P/N 145-250014.11 IS INSTALLED WITH EUROCOPTER CABLE CUTTER FIXED PROVISIONS.
- 7 APPLICABLE WHEN REPLACING EUROCOPTER P/N 145-250074.11
- 8 INSTALL WITH:  
647.1304  
647.1305  
647.1307  
647.1308

1		1	1		1	1		1	14	647.1817	SUPPORT, RH		
1		1	1		1	1		1	13	647.1912	BRACKET, LH		
1		1	1		1	1		1	12	647.1911	BRACKET, RH		
	8	8		8	8		8	8	11	647.0112	STRUT BRACKET		
							1	1	10	647.2110	LOWER RAIL		
							1	1	9	647.2111	UPPER RAIL		
	1	1		1	1		1	1	8	647.1610	WIPER DEFLECTOR, FWD		
	1	1		1	1		1	1	7	647.1601	WIPER DEFLECTOR ASSY, AFT		
							2	2	6	647.1701	SKID DEFLECTOR ASSY		
1		1	1		1	1		1	5	647.3201	GROUNDING CABLE ASSY		
1		1	1		1	1		1	4	647.2201	CROSS ASSY		
1		1	1		1	1		1	3	647.1602	DOUBLER ASSY		
	1	1		1	1		1	1	2	647.1402	CUTTER ASSY (LOWER)		
							1	1	1	647.1401	CUTTER ASSY (UPPER)		
X										647.1309	EC145 T2 FIXED PROVISIONS KIT		
	X									647.1308	EC145 T2 REMOVABLE PROVISIONS KIT		
		X								647.1307	EC145T2 CABLE CUTTERS KIT		
			X							647.1306	FIXED PROVISIONS KIT U CHANNEL		
				X						647.1305	REMOVABLE PROVISIONS KIT U CHANNEL	6	
					X					647.1304	EC145 CABLE CUTTERS KIT U CHANNEL COMPATIBLE	6	
						X				647.1303	FIXED PROVISIONS KIT		
							X			647.1302	REMOVABLE PROVISIONS KIT		
								X		647.1301	EC145 CABLE CUTTERS KIT		
.1309	.1308	.1307	.1306	.1305	.1304	.1303	.1302	.1301	FIND #	PART #	DESCRIPTION	MAT'L	SPEC.

BOM Table(Restructured)

QTY		PARTS LIST	
NEXT ASSY (S)		ORIGINAL DATE (MM-DD-YY) 07/06/09 DRAWN BY R. ROSANO CHECKER D. BARKER DRAWING APPROVAL P. BRAVO 08/05/09 CONTRACT NO.	<b>DART AEROSPACE</b> 3030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760)724-5300 APICAL INDUSTRIES, INC. dba DART AEROSPACE
		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.03 3 PLACE DECIMALS ±.010 ANGLES ±.5°	<b>EC145 CABLE CUTTERS KIT</b>
		SIZE B CAGE CODE 07MZ6 DWG. NO. 647.1300 REV. D	SCALE NONE SHEET 1 OF 10


1															2															3															4															5															6															7															8																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF DART AEROSPACE. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF DART AEROSPACE IS PROHIBITED.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF DART AEROSPACE. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF DART AEROSPACE IS PROHIBITED.

	2	2							89	647.1703	T2 SKID DEFLECTOR ASSY		
	8	8							88	601.3812	LOCK TAB	LN9023A8-1.4544.9	
				2	2				87	647.1702	SKID DEFLECTOR ASSY		
	1	1		1	1				86	647.2113	LOWER RAIL (U CHANNEL KIT)		
	8	8		8	8				85	601.3655	WASHER	LN9025-0820K	
	8	8		8	8				84	601.3654	SCREW	LN9037-08018	
1		1	1		1				83	647.2112	UPPER U CHANNEL		
	8	8		8	8				82	601.3653	WASHER	93475A270	
	4	4		4	4				81	601.3652	LOCKNUT	93625A300	
	4	4		4	4				80	601.3651	SCREW	91292A080	
	1	1		1	1				79	647.1403	CUTTER ASSY (UPPER U CHANNEL)		
	5	5		5	5				78	601.3650	BOLT	AN3-15A	
REF	REF	REF	REF	REF	REF	REF	REF	REF	77	647.5701	GPS MOUNT KIT		
2		2	2		2	2		2	76	601.1954	SCREW	MS27039-1-17	
	2	2		2	2		2	2	75	647.2010	UPPER STRUT		
1	1	1	1	1	1	1	1	1	74	601.2045	RTV	LOCTITE 598	
1	1	1	1	1	1	1	1	1	73	600.1012	SEALANT	PR-1425 CLASS B	
1	1	1	1	1	1	1	1	1	72	600.0991	MAGNOBOND 6398 PART B		
1	1	1	1	1	1	1	1	1	71	600.0990	MAGNOBOND 6398 PART A		
4		4	4		4	4		4	70	601.3012	SCREW	MS27039-1-15	
2		2	2		2	2		2	69	601.3004	CAMLOC STUD		
2		2	2		2	2		2	68	601.3005	CAMLOC RETAINER		
2		2	2		2	2		2	67	601.3006	CAMLOC RECEPTACLE		
3 FT.		3 FT.	3 FT.		3 FT.	3 FT.		3 FT.	66	601.3011	P-SEAL		
1.1 FT.		1.1 FT.	1.1 FT.		1.1 FT.	1.1 FT.		1.1 FT.	65	601.3007	GROMMET	MS21266-2N	
2		2	2		2	2		2	64	601.3008	INSERT	NAS1834C3-300	
12		12	12		12	12		12	63	601.2364	RIVET	CR3213-4-8	
16		16	16		16	16		16	62	601.2468	RIVET	CR3213-4-7	
11		11	11		11	11		11	61	601.2991	RIVET	CR3213-4-6	
2		2	2		2	2		2	60	601.1039	RIVET	CR3213-4-2	
8		8	8		8	8		8	59	601.1183	RIVET	CR3213-4-5	
22		22	22		22	22		22	58	601.0790	RIVET	CR3213-4-3	
8		8	8		8	8		8	57	601.2995	RIVET	CR3213-6-6	
4		4	4		4	4		4	56	601.1915	RIVET	CR3213-4-4	
12		12	12		12	12		12	55	601.2207	NUTPLATE RIVET	CCR264SS-3-03	
4		4	4		4	4		4	54	601.1983	NUTPLATE RIVET	CCR274SS-3-03	
12		12	12		12	12		12	53	601.2980	NUTPLATE RIVET	CCR264SS-3-04	
12		12	12		12	12		12	52	600.0795	NUTPLATE	MS21047-3	
.1309	.1308	.1307	.1306	.1305	.1304	.1303	.1302	.1301	FIND #	PART #	DESCRIPTION	MAT'L	SPEC.

BOM Table (Restructured)

ORIGINAL DATE  
(MO-DA-YR) 07/06/09  
DRAWN BY  
R. ROSANO  
CHECKER  
D. BARKER  
DRAWING APPROVAL  
P. BRAVO  
07/06/09  
CONTRACT NO.



3030 ENTERPRISE CT.,  
SUITE A  
VISTA, CA. 92081  
(760)-724-5300

APICAL INDUSTRIES, INC.  
d/b/a DART AEROSPACE

EC145 CABLE CUTTERS KIT

SIZE	CAGE CODE	DWG. NO.	REV.
B	07MZ6	647.1300	D
SCALE NONE		SHEET 3 OF 10	

UNLESS OTHERWISE SPECIFIED  
DIMENSIONS ARE IN INCHES  
TOLERANCES ARE:  
2 PLACE DECIMALS ±.01  
3 PLACE DECIMALS ±.005  
ANGLES ± .5°



1 2 3 4 5 6 7 8

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF  
DART AEROSPACE. ANY REPRODUCTION IN PART OR WHOLE WITHOUT  
THE WRITTEN PERMISSION OF DART AEROSPACE IS PROHIBITED.

A

B

C

D

DETAIL A

5/B3

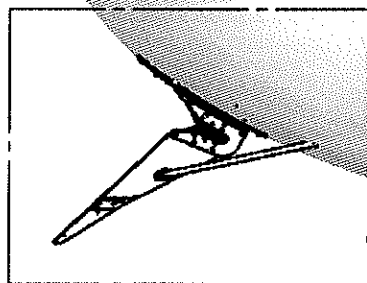
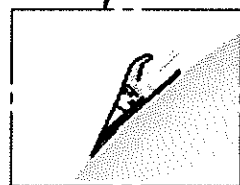
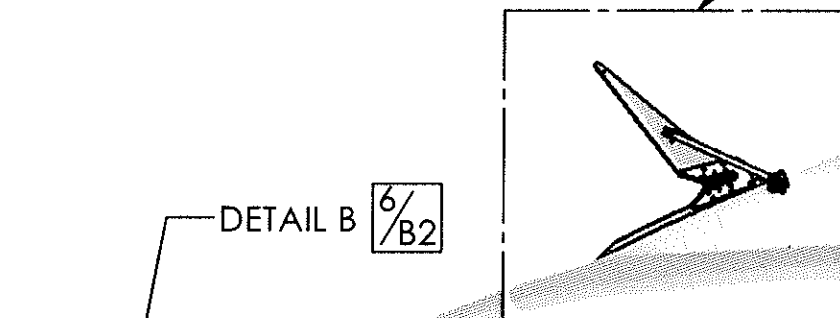
647.1301, 647.1302, 647.1303

10/B2

647.1304, 647.1305, 647.1306, 647.1307, 647.1308, 647.1309

DETAIL B

6/B2



7/C2

DETAIL C

K

K

9/D4

647.1701

10/D2

647.1702

10/D7

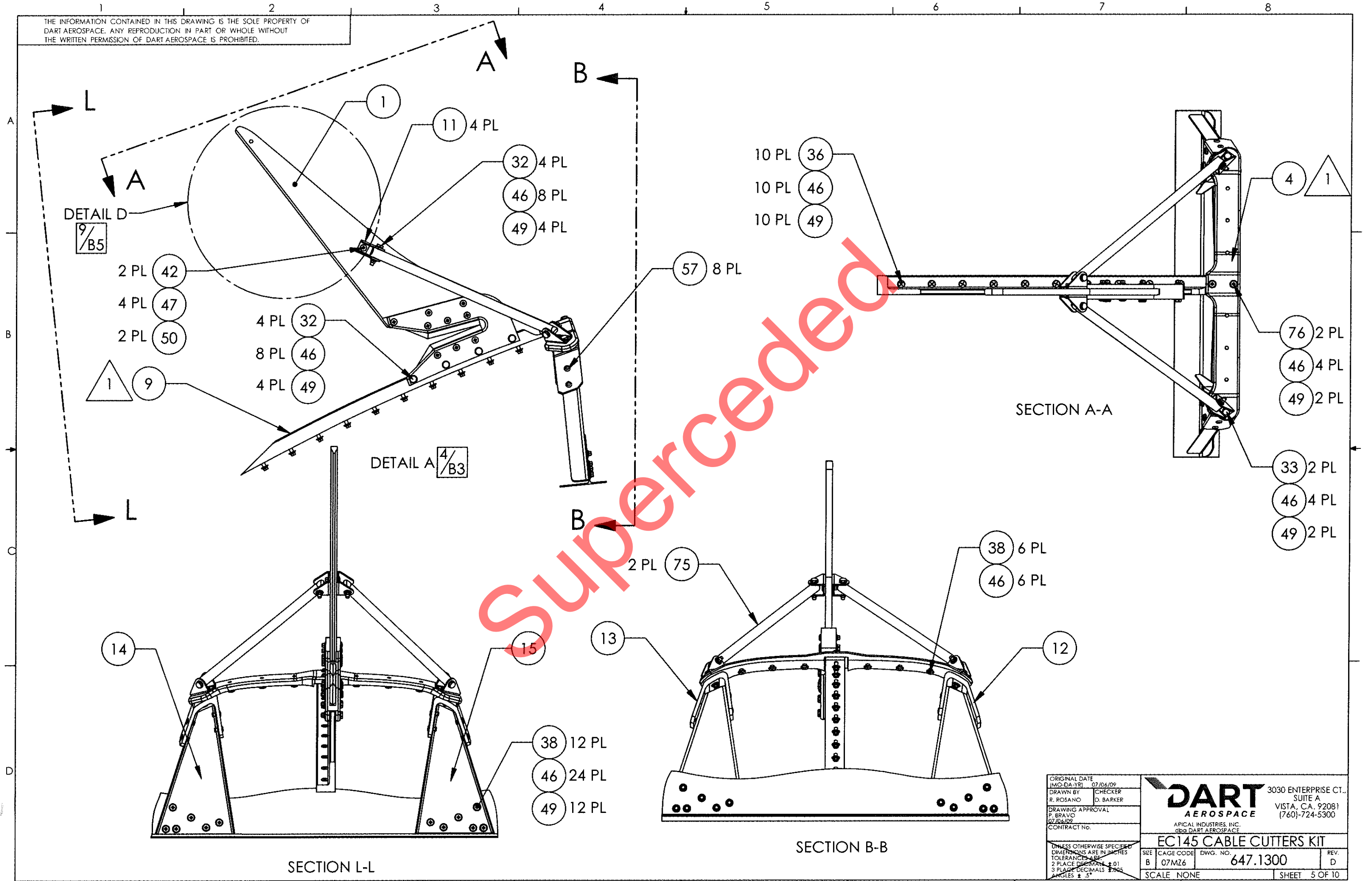
647.1703

ORIGINAL DATE  
IMO-DA-YR1 07/06/09  
DRAWN BY  
R. ROSANO  
CHECKER  
D. BARKER  
DRAWING APPROVAL  
P. BRAVO  
07/06/09  
CONTRACT No.

UNLESS OTHERWISE SPECIFIED  
DIMENSIONS ARE IN INCHES  
TOLERANCES ARE:  
2 PLACE DECIMALS ±.01  
3 PLACE DECIMALS ±.005  
ANGLES ±.5°

**DART**  
AEROSPACE  
APICAL INDUSTRIES, INC.  
dga DART AEROSPACE  
3030 ENTERPRISE CT.,  
SUITE A  
VISTA, CA. 92081  
(760)-724-5300  
**EC145 CABLE CUTTERS KIT**  
SIZE B CAGE CODE 07MZ6 DWG. NO. 647.1300 REV. D  
SCALE NONE SHEET 4 OF 10

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF DART AEROSPACE. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF DART AEROSPACE IS PROHIBITED.



ORIGINAL DATE 14-01-2010		07/06/09	
DRAWN BY R. ROSANO		CHECKER D. BARKER	
DRAWING APPROVAL P. BRAVO		07/06/09	
CONTRACT No.			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°			
SIZE B		CAGE CODE 07MZ6	DWG. NO. 647.1300
SCALE NONE		REV. D	

**DART**  
AEROSPACE  
APICAL INDUSTRIES, INC.  
also DART AEROSPACE

3030 ENTERPRISE CT.,  
SUITE A  
VISTA, CA. 92081  
(760)-724-5300

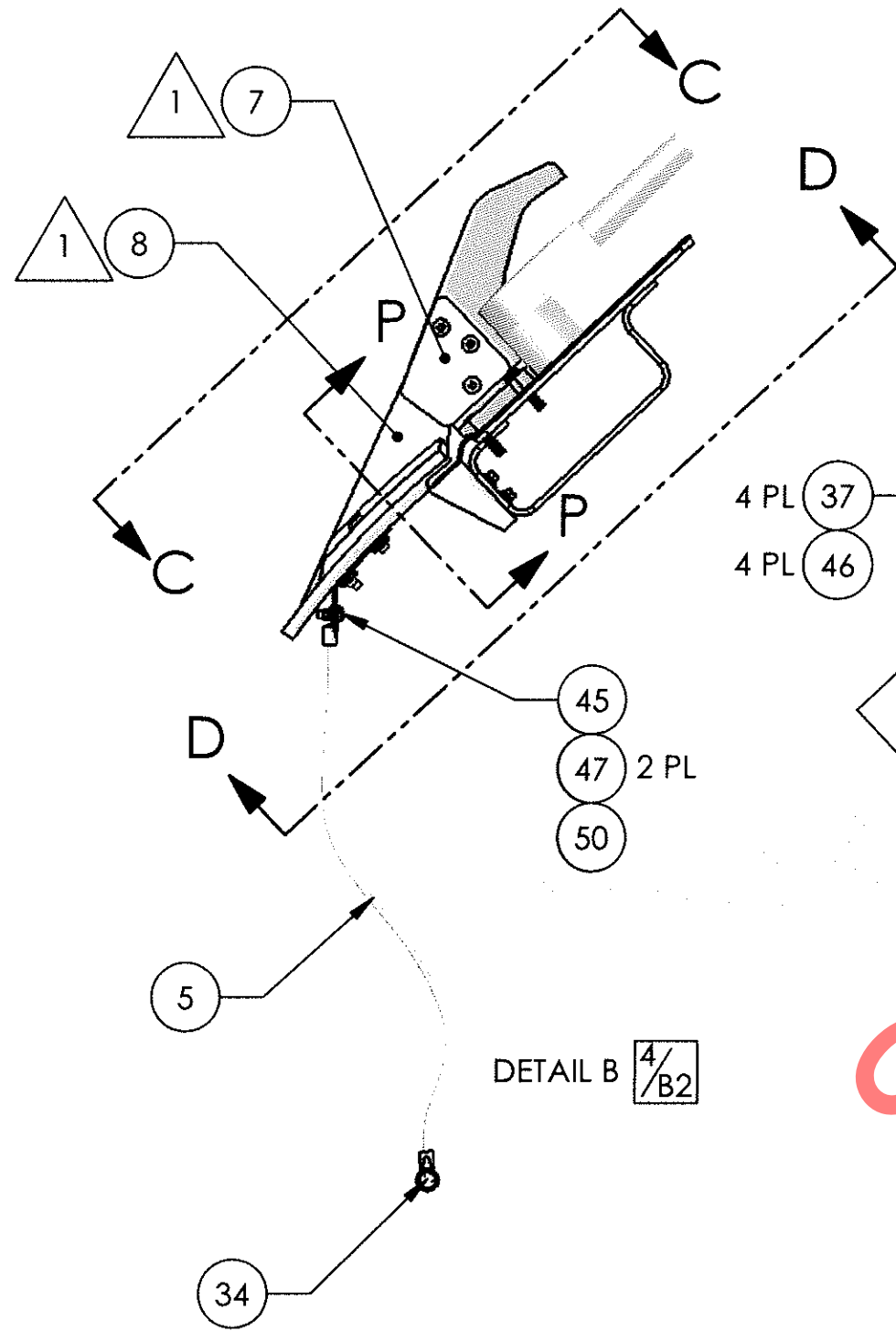
**EC145 CABLE CUTTERS KIT**

SHEET 5 OF 10

1 2 3 4 5 6 7 8

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF DART AEROSPACE. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF DART AEROSPACE IS PROHIBITED.

A  
B  
C  
D



4 PL (37)  
4 PL (46)

(45)  
(47) 2 PL  
(50)

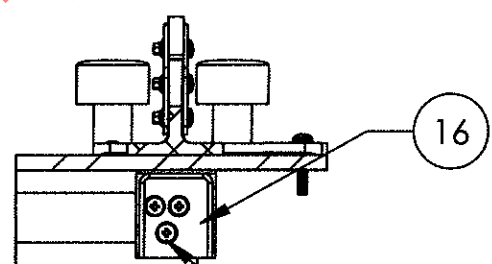
(5)

(34)

DETAIL B 4/B2

Supercircled

SECTION C-C



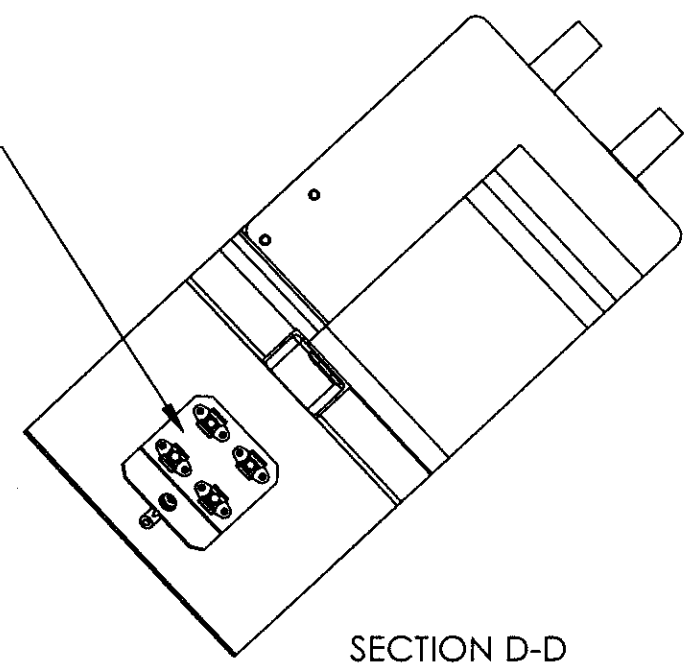
SECTION P-P

(39) 3 PL  
(48) 3 PL

(16)

(40) 3 PL  
(46) 6 PL  
(49) 3 PL

(3)

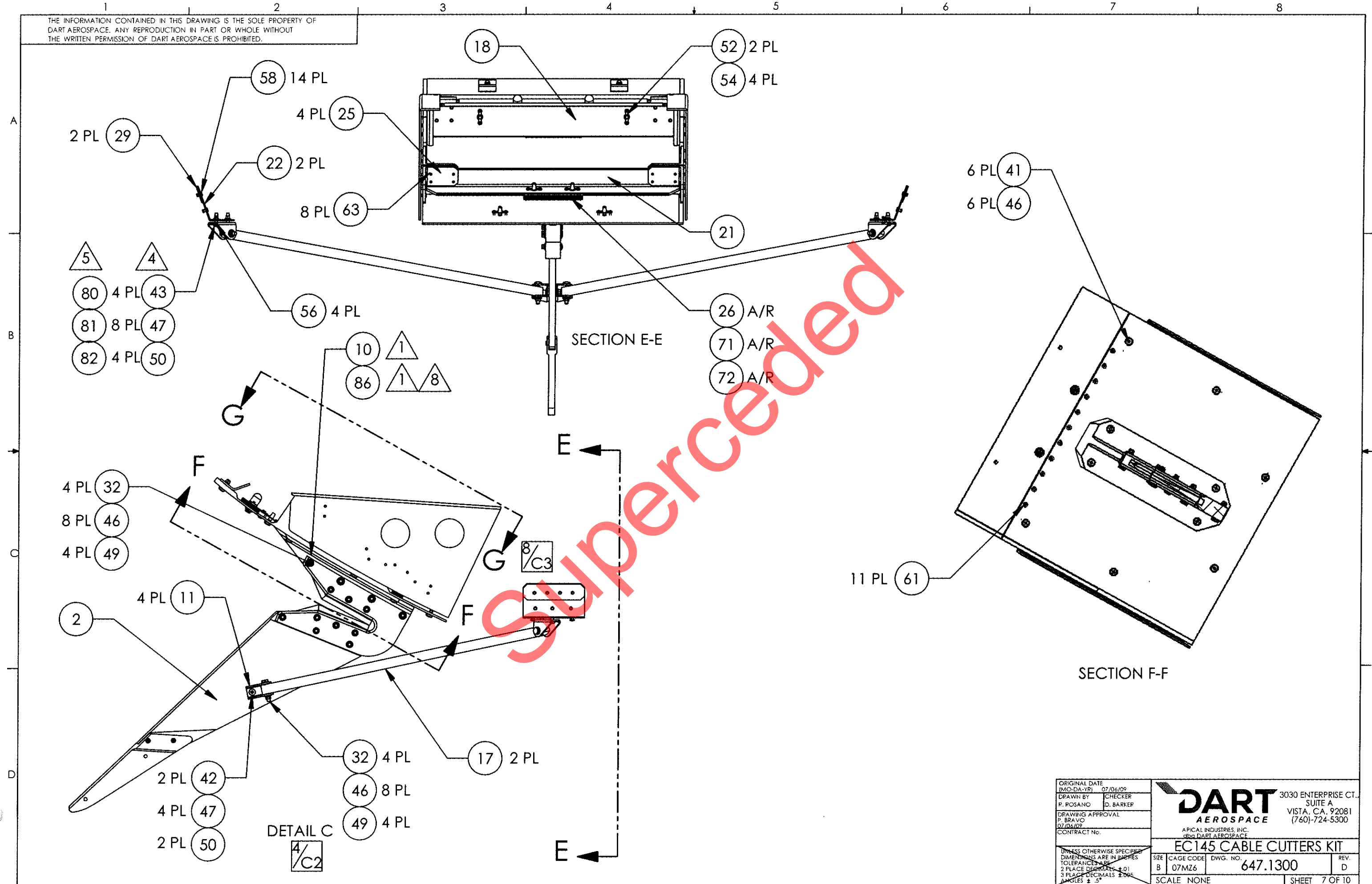


SECTION D-D

ORIGINAL DATE (MO-DA-YR) 07/06/09  
DRAWN BY R. ROSANO CHECKER D. BARKER  
DRAWING APPROVAL P. BRAVO 07/06/09  
CONTRACT No.  
UNLESS OTHERWISE SPECIFIED  
DIMENSIONS ARE IN INCHES  
TOLERANCES ARE:  
2 PLACE DECIMALS ±.01  
3 PLACE DECIMALS ±.005  
ANGLES ±.5°

<b>DART AEROSPACE</b>		3030 ENTERPRISE CT., SUITE A VISTA, CA, 92081 (760)-724-5300	
APICAL INDUSTRIES, INC. dba DART AEROSPACE			
<b>EC145 CABLE CUTTERS KIT</b>			
SIZE B	CAGE CODE 07MZ6	DWG. NO. 647.1300	REV. D
SCALE NONE			SHEET 6 OF 10

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF  
DART AEROSPACE. ANY REPRODUCTION IN PART OR WHOLE WITHOUT  
THE WRITTEN PERMISSION OF DART AEROSPACE IS PROHIBITED.



ORIGINAL DATE IMO-DA-VRI 07/06/09		3030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760)-724-5300	
DRAWN BY R. ROSANO		CHECKER D. BARKER	
DRAWING APPROVAL P. BRAVO 07/06/09		APICAL INDUSTRIES, INC. DART AEROSPACE	
CONTRACT NO.		EC145 CABLE CUTTERS KIT	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°	SIZE B	CAGE CODE 07MZ6	DWG. NO. 647.1300
SCALE NONE		REV. D	
SHEET 7 OF 10			



1 2 3 4 5 6 7 8

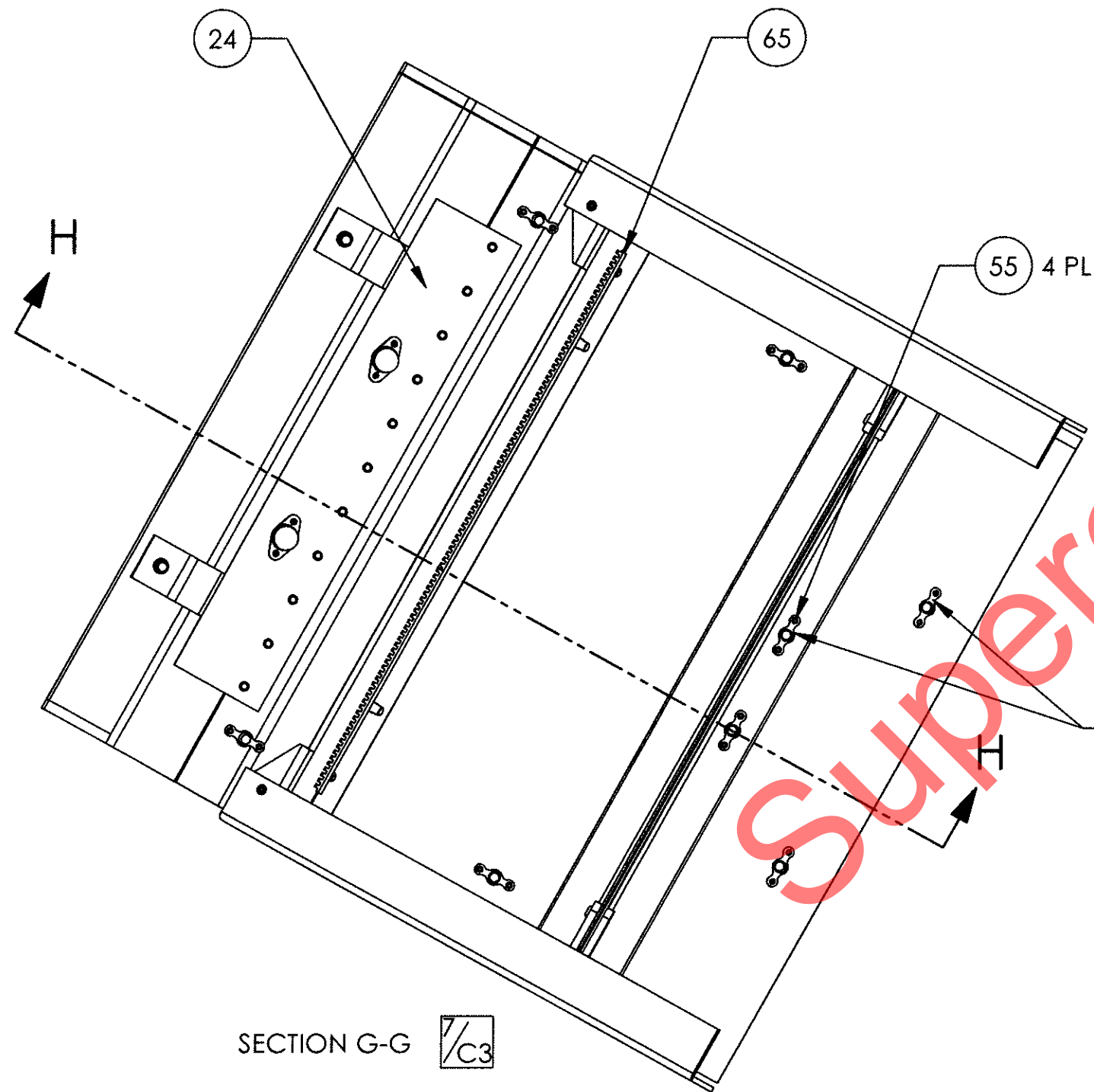
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF DART AEROSPACE. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF DART AEROSPACE IS PROHIBITED.

A

B

C

D



SECTION G-G

1/8" C3

SHOWN

OPPOSITE

19

20

4 PL

55

2 PL

60

9/16" B2

63

4 PL

2 PL

66

2 PL

69

2 PL

68

2 PL

67

23

1

2 PL

64

2 PL

44

OR

70

2 PL

46

SECTION H-H

59

8 PL

62

16 PL

44

OR

70

2 PL

46

2 PL

52

8 PL

53

12 PL

ORIGINAL DATE  
(MM-DD-YY) 07/06/09  
DRAWN BY  
R. ROSANO  
CHECKER  
D. BARKER  
DRAWING APPROVAL  
P. BRAVO  
07/06/09  
CONTRACT NO.

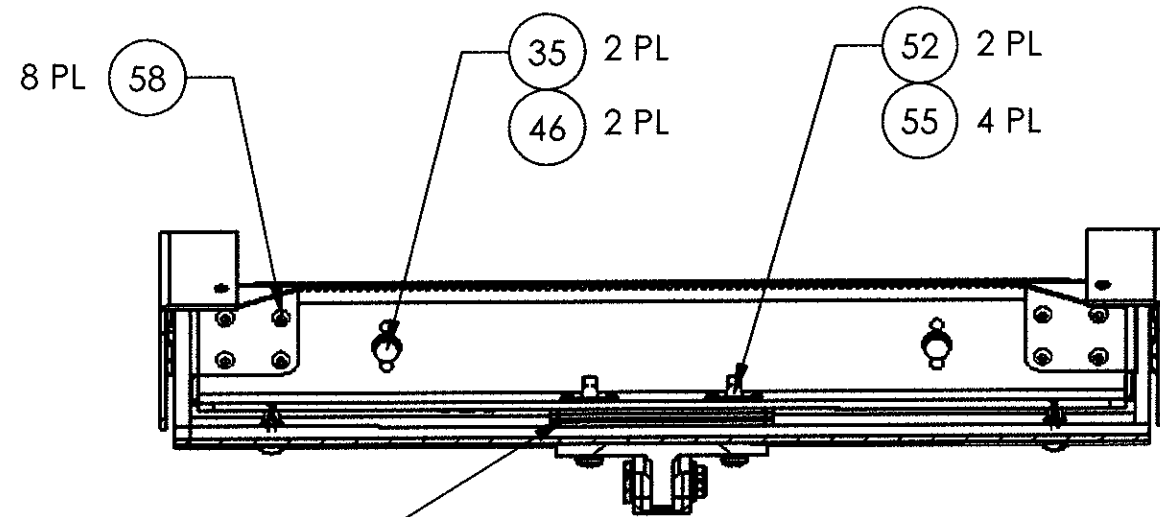
UNLESS OTHERWISE SPECIFIED  
DIMENSIONS ARE IN INCHES  
TOLERANCES ARE:  
2 PLACE DECIMALS ±.01  
3 PLACE DECIMALS ±.005  
ANGLES ±.5°

**DART**  
AEROSPACE  
3030 ENTERPRISE CT.,  
SUITE A  
VISTA, CA. 92081  
(760)-724-5300  
APICAL INDUSTRIES, INC.  
dba DART AEROSPACE  
**EC145 CABLE CUTTERS KIT**  
SIZE B CAGE CODE 07M26 DWG. NO. 647.1300 REV. D  
SCALE NONE SHEET 8 OF 10



1 2 3 4 5 6 7 8

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF DART AEROSPACE. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF DART AEROSPACE IS PROHIBITED.

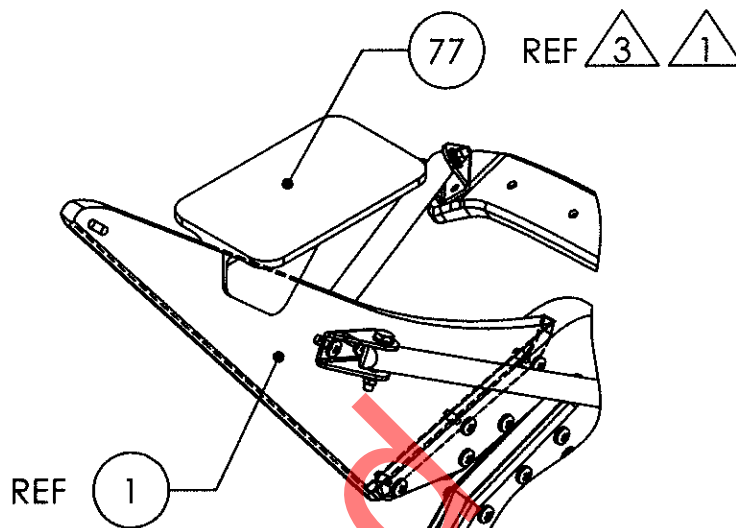


A/R (26)

A/R (71)

A/R (72)

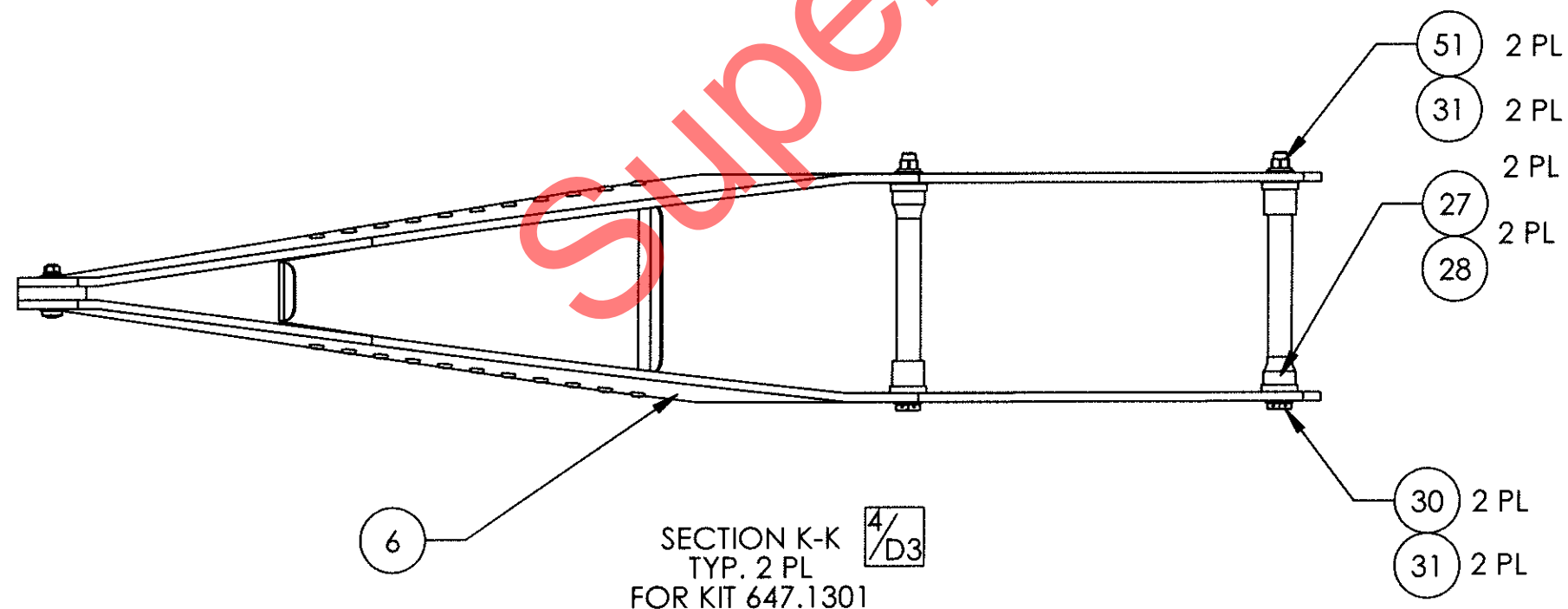
SECTION O-O  $\frac{8}{A6}$



DETAIL D  $\frac{8}{A6}$

SHOWN ISOMETRICALLY

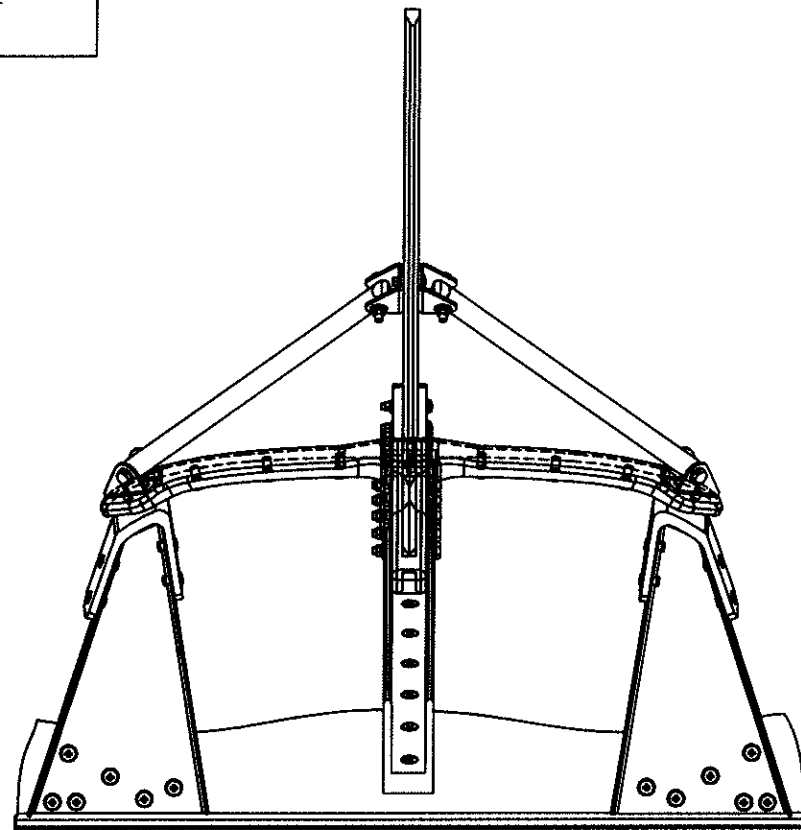
TYPICAL GPS MOUNT KIT INSTALLATION



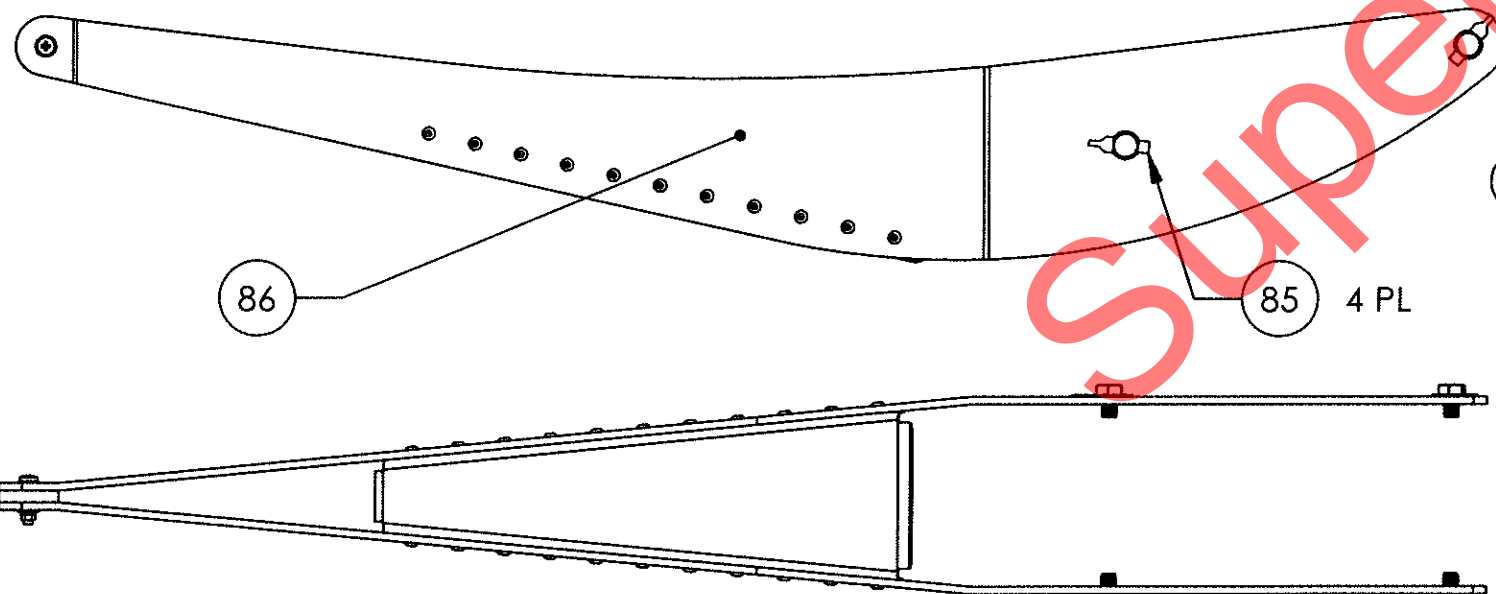
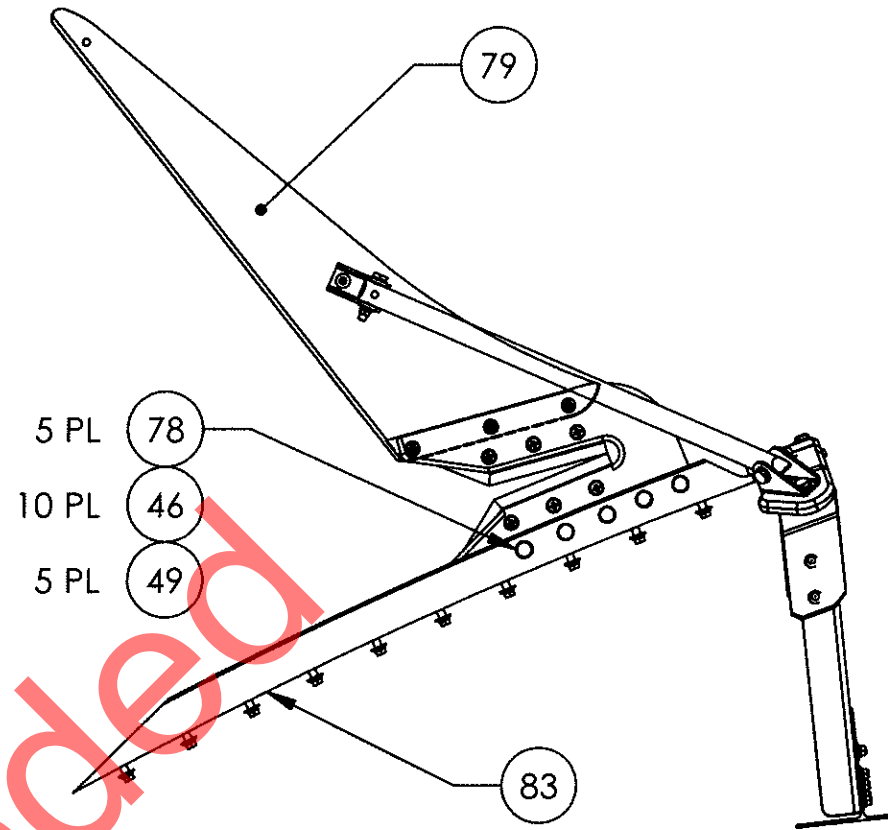
INBOARD

ORIGINAL DATE (MO-DA-YR) 07/06/09		3030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760)-724-5300	
DRAWN BY R. ROSANO		CHECKER D. BARKER	
DRAWING APPROVAL P. BRAYO		APICAL INDUSTRIES INC. dba DART AEROSPACE	
CONTRACT NO.		EC145 CABLE CUTTERS KIT	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES 2 PLACE DECIMALS $\pm .01$ 3 PLACE DECIMALS $\pm .005$ ANGLES $\pm .5^\circ$	SIZE B	CAGE CODE 07MZ6	DWG. NO. 647.1300
SCALE NONE		REV. D	
SHEET 9 OF 10			

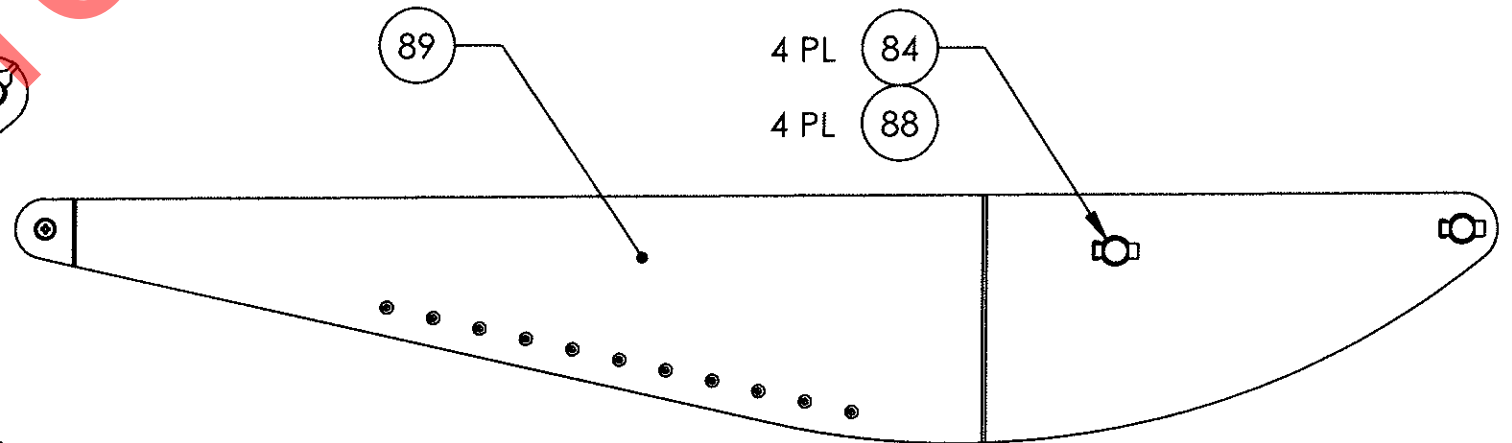
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF  
DART AEROSPACE. ANY REPRODUCTION IN PART OR WHOLE WITHOUT  
THE WRITTEN PERMISSION OF DART AEROSPACE IS PROHIBITED.



DETAIL A  
WITH U CHANNEL  $\frac{4}{B3}$



647.1702  
DETAIL K  
ALTERNATE CONFIGURATION  
FOR P/N 647.1303



647.1703  
DETAIL K  
T2 CONFIGURATION

ORIGINAL DATE  
(MO-DA-YR) 07/06/09  
DRAWN BY R. ROSANO  
CHECKED D. BARKER  
DRAWING APPROVAL  
P. BRAVO  
07/06/09  
CONTRACT NO.

UNLESS OTHERWISE SPECIFIED  
DIMENSIONS ARE IN INCHES  
TOLERANCES ARE:  
2 PLACE DECIMALS  $\pm .01$   
3 PLACE DECIMALS  $\pm .005$   
ANGLES  $\pm .5^\circ$

<b>DART</b> AEROSPACE		3030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760)-724-5300	
APICAL INDUSTRIES, INC. dba DART AEROSPACE			
EC145 CABLE CUTTERS KIT			
SIZE B	CAGE CODE 07M26	DWG. NO. 647.1300	REV. D
SCALE NONE			SHEET 10 OF 10